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## PATENT CLAIMS

- A motor control device having
- control component (Sum1) for making available a control signal (ev), characterized by
- a signal dividing device (B, Sum5) for dividing the control signal (ev) into at least two signal portions (evlo, evhi).
- a signal processing device (F) with which each of the at least two signal portions (evlo, evhi) can be processed in different ways, and
- an adder device (Sum6) for adding the differently processed signal portions for further processing.
- The motor control device as claimed in claim 1, one of the signal portions being a higher value signal portion (evhi) and another of the signal portions being a lower value signal portion (evlo) with respect to the signal amplitude.
- 3. The motor control device as claimed in claim 2, the signal processing device (F) having a low pass filter in a signal path for the lower value signal portion (evio).
- 4. The motor control device as claimed in claim 2 or 3, the signal processing device (F) having one or more band stops in a signal path for the lower value signal portion (evlo).
- The motor control device as claimed in one of the preceding claims, which has a position sensor (G) and an acceleration sensor for sensing the movement of an adjustment element.
- The motor control device as claimed in one of the preceding claims, which has a sampling device for repeatedly sampling a variable to be sensed within a

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time step with the acquisition of a plurality of sampled values, and for supplying an averaged sampled value in the time step as an actual variable.

- 7. The motor control device as claimed in one of the preceding claims, the control component (Sum1) constituting a subtraction device for subtracting an actual variable (vist) from a reference variable (vref) by making available a differential signal (ev), and the signal dividing device (B, Sum5) for dividing the differential signal (ev) being connected downstream of the subtraction device.
- A method for controlling a motor by
- making available a control signal (ev), characterized by
- division of the control signal (ev) into at least two signal portions (evlo, evhi),
- processing of each of the at least two signal portions (evlo, evhi) in different ways, and
- addition of the differently processed signal portions for further processing.
- The method as claimed in claim 8, the control signal (ev) being divided into a higher value signal portion (evhi) and a lower value signal portion (evlo) with respect to the signal amplitude.
- 10. The method as claimed in claim 9, the lower value signal portion (evlo) being filtered with a low pass filter.
- 11. The method as claimed in claim 9 or 10, the lower value signal portion (evlo) being filtered with one or more band stops.
- 12. The method as claimed in one of claims 8 to 11, a position signal (xist) and an acceleration signal each being sensed as an actual variable.

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13. The method as claimed in one of claims 8 to 12, a variable which is to be sensed being sampled within a time step by acquiring a plurality of sampled values, and an averaged sampled value in the time step being supplied as an actual variable.

14. The method as claimed in one of claims 8 to 13, the control signal (ev) being a differential signal between an actual variable (vist) and a reference variable (vref), and this differential signal being divided into at least two signal portions (evlo, evhi).